attachment 4
Paper 1

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Attorney Docket No.: 19496-22	Application No.: 09/229,037
	Applicant: Cox et al..	
	Filing Date: 1/12/99	Group: ~~1643~~ 1631

Reference Designation — **U.S. PATENT DOCUMENTS** — Page

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
KB AA	5,789,538	Aug. 4, 1998	Rebar et al. Duplicate	~~530~~	~~324~~	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

KB AB	Beerli, R.R. et al. "Toward controlling gene expression at will: Specific regulation of the *erbB-2/HER-2* promoter by using polydactyl zinc finger proteins constructed from modular building blocks." *Proc. Natl. Acad. Sci. USA*, 95:14628-14633 (1998).
____ AC	Choo, Y. et al. "In vivo repression by a site-specific DNA-binding protein designed against an oncogenic sequence." *Nature*, 372:642-645 (1994).
____ AD	Choo, Y. and Klug, A. "Selection of DNA binding sites for zinc fingers using rationally randomized DNA reveals coded interactions." *Proc. Natl. Acad. Sci. USA*, 91:11168-11172 (1994).
____ AE	Choo, Y. and Klug, A. Toward a code for the interactions of zinc fingers with DNA: Selection of randomized fingers displayed on phage." *Proc. Natl. Acad. Sci. USA*, 91:11163-11167 (1994).
____ AF	Desjarlais, J.R. and Berg, J.M. "Length-encoded multiplex binding site determination: Application to zinc finger proteins." *Proc. Natl. Acad. Sci. USA*, 91:11099-11103 (1994).
____ AG	Desjarlais, J.R. and Berg, J.M. "Use of a zinc-finger consensus sequence framework and specificity rules to design specific DNA binding proteins." *Proc. Natl. Acad. Sci. USA*, 90:2256-2260 (1993).
____ AH	Desjarlais, J.R. and Berg, J.M. "Toward rules relating zing finger protein sequences and DNA binding site preferences." *Proc. Natl. Acad. Sci. USA*, 90:7345-7349 (1992).
____ AI	Greisman, H.A. and Pabo, C.O. "A general strategy for selecting high-affinity zinc finger proteins for diverse DNA target sites." *Science*, 275:657-661.
____ AJ	Jamieson, A.C. et al. "In vitro selection of zinc fingers with altered DNA-binding specificity. *Biochemistry*, 33:5689-5695 (1994).
____ AK	Kim, J-S. and Pabo, C.O. "Getting a handhold on DNA: Design of poly-zinc finger proteins with femtomolar dissociation constants." *Proc. Natl. Acad. Sci. USA*, 95:2812-2817 (1998).
____ AL	Kim, J-S. and Pabo, C.O. "Transcriptional repression by zinc finger peptides." The Journal of Biological Chemistry 272:29795-28000 (1997).
____ AM	Liu, Q. et al. "Design of polydactyl zinc-finger proteins for unique addressing within complex genomes." *Proc. Natl. Acad. Sci. USA*, 94:5525-5530 (1997).
____ AN	Pomerantz, J.L. et al. "Structure-based design of transcription factors." Science 267:93-96 (1995).
____ AO	Rebar, E.J. and Pabo, C.O. "Zinc finger phage: Affinity selection of fingers with new DNA-binding specificities." *Science*, 263:671-673 (1994).
____ AP	Wu, H. et al. "Building zinc fingers by selection: Toward a therapeutic application." *Proc. Natl. Acad. Sci. USA*, 92:344-348 (1995).

EXAMINER John S. Brusca — DATE CONSIDERED 12/10/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)	Attorney Docket No.: 19496-22	Application No.: 09/229,037
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: Cox et al.	
	Filing Date: 1/12/99	Group: ~~1643~~ 1631

Reference Designation — **U.S. PATENT DOCUMENTS** — Page 1

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
JRB AA	6,013,453	1/11/2000	Choo et al.			
AB	6,007,988	12/28/99	Choo et al.			
AC	6,001,885	12/14/99	Vega et al.			
AD	5,972,615	10/26/99	An et al.			
AE	5,939,538	08/17/99	Leavitt et al.			
AF	5,916,794	6/29/99	Chandrasegaran			
AG	5,871,907	2/16/99	Winter et al.			
AH	5,871,902	2/16/99	Weininger et al.			
AI	5,869,618	2/9/99	Lippman et al.			
AJ	5,792,640	8/11/98	Chandrasegaran			
AK	5,702,914	12/30/97	Evans et al.			
AL	5,674,738	10/7/97	Abramson et al.			
AM	5,639,592	6/17/97	Evans et al.			
AN	5,597,693	1/28/97	Evans et al.			
AO	5,578,483	11/26/96	Evans et al.			
AP	5,498,530	3/12/96	Schatz et al.			
AQ	5,487,994	1/30/96	Chandrasegaran			
AR	5,436,150	7/25/95	Chandrasegaran			
AS	5,403,484	4/4/95	Ladner et al.			
AT	5,376,530	12/27/94	De The et al.			
AU	5,356,802	10/18/94	Chandrasegaran			
AV	5,350,840	9/27/94	Call et al.			
AW	5,348,864	9/20/94	Barbacid			
AX	5,340,739	8/23/94	Stevens et al.			
AY	5,324,819	6/28/94	Oppermann et al.			
AZ	5,324,818	6/28/94	Nabel et al.			
BA	5,324,638	6/28/94	Tao et al.			
BB	5,302,519	4/12/94	Blackwood et al.			
BC	5,243,041	9/7/93	Fernandez-Pol			
BD	5,223,409	6/29/93	Ladner et al.			
BE	5,198,346	3/30/93	Ladner et al.			
BF	5,096,815	3/17/92	Ladner et al.			
BG	5,096,814	3/17/92	Aivasidis et al.			
BH	4,990,607	2/5/91	Katagiri et al.			

FOREIGN PATENT DOCUMENTS

JRB. Bruce 12/11/01

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Attorney Docket No.: 19496-22	Application No.: 09/229,037
	Applicant: Cox et al.	
	Filing Date: 1/12/99	Group: ~~1643~~ 1631

	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
BI	WO 00/27878	5/18/2000	PCT			
BJ	WO 00/23464	4/27/2000	PCT			
BK	WO 99/48909	9/30/99	PCT			
BL	WO 99/47656	9/23/99	PCT			
BM	WO 99/45132	9/10/99	PCT			
BN	WO 99/42474	8/26/99	PCT			
BO	WO 99/41371	8/19/99	PCT			
BP	WO 99/36553	7/22/99	PCT			
BQ	WO 98/54311	12/3/98	PCT			
BR	WO 98/53060	11/26/98	PCT			
BS	WO 98/53059	11/26/98	PCT			
BT	WO 98/53058	11/26/98	PCT			
BU	WO 98/53057	11/26/98	PCT			
BV	WO 97/27213	7/31/97	PCT			
BW	WO 97/27212	7/31/97	PCT			
BX	WO 96/32475	10/17/96	PCT			
BY	WO 96/20951	7/11/96	PCT			
BZ	WO 96/06166	2/29/96	PCT			
CA	WO 96/06110	2/29/96	PCT			
CB	WO 95/19431	7/20/95	PCT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	Agarwal et al., "Stimulation of Transcript Elongation Requires both the Zinc Finger and RNA Polymerase II Binding Domains of Human TFIIS," Biochemistry, 30(31):7842-7851 (1991).
CD	Antao et al., "A thermodynamic study of unusually stable RNA and DNA hairpins," Nuc. Acids. Res., 19(21):5901-5905 (1991).
CE	Barbas, C. F., "Recent advances in phage display," Curr. Opin. Biotech., 4:526-530 (1993).
CF	Barbas et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," PNAS, 88:7978-7982 (1991).
CG	Barbas et al., "Semisynthetic combinatorial antibody libraries: A chemical solution to the diversity problem," PNAS, 89:4457-4461 (1992).
CH	Bellefroid et al., "Clustered organization of homologous KRAB zinc-finger genes with enhanced expression in human T lymphoid cells," EMBO J., 12(4):1363-1374 (1993).
CI	Berg, J. M., "DNA Binding Specificity of Steriod Receptors," Cell, 57:1065-1068 (1989).
CJ	Berg, J. M., "Sp1 and the subfamily of zinc finger proteins with guanine-rich binding sites," PNAS, 89:11109-11110 (1992).
CK	Berg et al., "The Galvanization of Biology: A Growing Appreciation for the Roles of Zinc," Science, 271:1081-1085 (1996).
CL	Berg, J.M., "Letting your fingers do the walking," Nature Biotechnology, 15:323 (1997).

Josh. Bruce 12/10/01

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Attorney Docket No.: 19496-22	Application No.: 09/229,037
	Applicant: Cox et al.	
	Filing Date: 1/12/99	Group: ~~1643~~ 1631

✓ CM	Bergqvist et al., "Loss of DNA-binding and new transcriptional *trans*-activation function in polyomavirus large T-antigen with mutation of zinc finger motif," Nuc. Acids Res., 18(9):2715-2720 (1990).
____ CN	Blaese et al., "Vectors in cancer therapy: how will they deliver?," Cancer Gene Therapy, 2(4):291-297 (1995).
____ CO	Caponigro et al., "Transdominant gentic analysis of a growth control pathway," PNAS, 95:7508-7513 (1998)
____ CP	Celenza et al., "A Yeast Gene That Is Essential for Release from Glucose Repression Encodes a Protein Kinase," Science, 233:1175-1180 (1986).
____ CQ	Cheng et al., "Identification of Potential Target Genes for Adr1p through Characterization of Essential Nucleotides in UAS1," Mol. Cellular Biol., 14(6):3842-3852 (1994).
____ CR	Cheng et al., "A Single Amino Acid substitution in Zinc Finger 2 of Adr1p Changes its Binding Specificity at two Positions in UAS1," J. Mol. Biol., 251:1-8 (1995)
____ CS	Choo et al., "A role in DNA binding for the linker sequences of the first three zinc fingers of TFIIIA," Nuc. Acids Res., 21(15):3341-3346 (1993).
____ CT	Choo et al., "Designing DNA-binding proteins on the surface of filamentous phage," Curr. Opin. Biotechnology, 6:431-436 (1995).
____ CU	Choo et al., "Promoter-specific Activation of Gene Expression Directed by Bacteriophage-selected Zinc Fingers," J. Mol. Biol., 273:525-532 (1997).
____ CV	Choo, Y., "Recognition of DNA methylation by zinc fingers," Nature Struct. Biol., 5(4):264-265 (1998).
____ CW	Choo et al., "All wrapped up," Nature Structural Biology, 5(4):253-255 (1998).
____ CX	Choo, Y., "End effects in DNA recognition by zinc finger arrays," Nuc. Acids Res., 26(2):554-557 (1998).
____ CY	Choo et al., "Physical basis of a protein-DNA recognition code," Curr. Opin. Struct. Biol., 7(1):117-125 (1997)
____ CZ	Clarke et al., "Zinc Fingers in *Caenorhabditis elegans*: Finding Families and Probing Pathways," Science, 282:2018-2022 (1998).
____ DA	Crozatier et al., "Single Amino Acid Exchanges in Separate Domains of the Drosophila serendipity δ Zinc Finger Protein Cause Embryonic and Sex Biased Lethality," Genetics, 131:905-916 (1992).
____ DB	Debs et al., "Regulation of Gene Expression *in Vivo* by Liposome-mediated Delivery of a Purified Transcription Factor*," J. Biological Chemistry, 265(18):10189-10192 (1990).
____ DC	Desjarlais et al., "Redesigning the DNA-Binding Specificity of a Zinc Finger Protein: A Data Base-Guided Approach," Proteins: Structure, Function, and Genetics, 12(2):101-104 (1992)
____ DD	Desjarlais et al., "Redesigning the DNA-Binding Specificity of a Zinc Finger Protein: A Data Base-Guided Approach," Proteins: Structure, Function, and Genetics, 13(3):272 (1992)
____ DE	DiBello et al., "The Drosophila *Broad-Complex*Encodes a Family of Related Proteins Containing Zinc Fingers," Genetics, 129:385-397 (1991).
____ DF	Elrod-Erickson et al., "High-resolution structures of variant Zif268-DNA complexes: implications for understanding zinc finger-DNA recognition," Structure, 6(4):451-464 (1998).
____ DG	Elrod-Erickson et al., "Zif268 protein-DNA complex refined at 1.6 Å: a model system for understanding zinc finger-DNA interactions," Structure, 4(10):1171-1180 (1996)
____ DH	Fairall et al., "The crystal structure of a two zinc-finger peptide reveals an extension to the rules for zinc-finger/DNA recognition," Nature, 366:483-487 (1993)
____ DI	Frankel et al., "Fingering Too Many Proteins," Cell, 53:675 (1988).
____ DJ	Friesen et al., "Phage Display of RNA Binding Zinc Fingers from Transcription Factor IIIA*," J. Biological Chem., 272(17):10994-10997 (1997).
✓ DK	Friesen et al., "Specific RNA binding proteins constructed from zinc fingers," Nature Structural Biology, 5(7):543-546(1998).
✓ DL	Gogos et al., "Recognition of diverse sequences by class I zinc fingers: Asymmetries and indirect effects on specificity in the interaction between CF2II and A+T-rich sequence elements," PNAS, 93(5):2159-2164 (1996)

J.B. Brusca 12/10/01

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Attorney Docket No.: 19496-22	Application No.: 09/229,037
	Applicant: Cox et al.	
	Filing Date: 1/12/99	Group: ~~1643~~ 1631

DM	Gossen et al., "Tight control of gene expression in mammalian cells by tetracycline-responsive promoters," PNAS, 89:5547-5551 (1992)
DN	Hamilton et al., "High affinity binding sites for the Wilms' tumor suppressor protein WT1," Nuc. Acids Res., 23(2):277-284 (1995).
DO	Hanas et al., "Internal deletion mutants of *Xenopus* transcription factor IIIA," Nuc. Acids Res., 17(23):9861-9870 (1989).
DP	Hayes et al., "Locations of Contacts between Individual Zinc Fingers of *Xenopus laevis* Transcription Factor IIIA and the Internal Control Region of a 5S RNA Gene," Biochemistry, 31:11600-11605 (1992).
DQ	Heinzel et al., "A complex containing N-CoR, mSin3 and histone deacetylase mediates transcriptional repression," Nature, 387:43-48 (1997).
DR	Hirst et al., "Discrimination of DNA response elements for thyroid hormone and estrogen is dependant on dimerization of receptor DNA binding domains," PNAS, 89:5527-5531 (1992).
DS	Hoffman et al., "Structures of DNA-binding mutant zinc finger domains: Implications for DNA binding," Protein Science, 2:951-965 (1993).
DT	Isalan et al., "Synergy between adjacent zinc fingers in sequence-specific DNA recognition," PNAS, 94(11):5617-5621 (1997)
DU	Isalan et al., "Comprehensive DNA Recognition through Concerted Interactions from Adjacent Zinc Fingers," Biochemistry, 37:12026-12033 (1998).
DV	Jacobs, G. H., "Determination of the base recognition positions of zinc fingers from sequence analysis," EMBO J., 11(12):4507-4517 (1992).
DW	Jamieson et al., "A zinc finger directory for high-affinity DNA recognition," PNAS, 93:12834-12839 (1996).
DX	Julian et al., "Replacement of His23 by Cys in a zinc finger of HIV-1 NCp7 led to a change in 1H NMR-derived 3D structure and to a loss of biological activity," FEBS letters, 331(1,2):43-48 (1993).
DY	Kamiuchi et al., "New multi zinc finger protein: biosynthetic design and characteristics of DNA recognition," Nucleic Acids Symposium Series, 37:153-154 (1997).
DZ	Kim et al., "Serine at Position 2 in the DNA Recognition helix of a Cys2-His2 Zinc finger Peptide is Not, in General, Responsible for Base Recognition," J. Mol. Biol., 252:1-5 (1995).
EA	Kim et al., "Site-specific cleavage of DNA-RNA hybrids by zinc finger/*Fok*I cleavage domain fusions," Gene, 203:43-49 (1997).
EB	Kim et al., "A 2.2 A° resolution crystal structure of a designed zinc finger protein bound to DNA," Nat. Struct. Biol., 3(11):940-945 (1996)
EC	Kim et al., "Design of TATA box-binding protein/zinc finger fusions for targeted regulation of gene expression," PNAS, 94:3616-3620 (1997)
ED	Kim et al., "Hybrid restriction enzymes: Zinc finger fusions to *Fok* I cleavage domain," PNAS, 93:1156-1160 (1996)
EE	Kinzler et al., "The GLI gene is a member of the Kruppel family of zinc finger proteins," Nature, 332:371-4 (1988).
EF	Klug, A., "Gene Regulatory Proteins and Their Interaction with DNA," Ann. NY Acad. Sci., 758:143-160 (1995).
EG	Klug et al., "Protein Motifs 5: Zinc Fingers," FASEB J., 9:597-604 (1995).
EH	Kulda et al., "The regulatory gene *are*A mediating nitrogen metabolite repression in *Aspergillus nidulans*. Mutations affecting specificity of gene activation alter a loop residue of a putative zinc finger," EMBO J., 9(5):1355-1364 (1990).
EI	Laird-Offringa et al., "RNA-binding proteins tamed," Nat. Structural Biol., 5(8):665-668 (1998).
EJ	Mandel-Gutfreund et al., "Quantitative parameters for amino acid-base interaction: implications for prediction of protein-DNA binding sites," Nuc. Acids Res., 26(10):2306-2312 (1998).
EK	Margolin et al., "Kruppel-associated boxes are potent transcriptional repression domains," PNAS, 91:4509-4513 (1994).
EL	Mizushima et al., "pEF-BOS, a powerful mammilian expression vector," Nuc. Acids Res., 18(17):5322 (1990).

J.B. Brunn 12/10/01

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Attorney Docket No.: 19496-22	Application No.: 09/229,037
	Applicant: Cox et al.	
	Filing Date: 1/12/99	Group: 1643 1637

	EM	Nardelli et al., "Zinc finger-DNA recognition: analysis of base specificity by site-directed mutagenesis," Nuc. Acids Res., 20(16):4137-4144 (1992)
	EN	Nardelli et al., "Base sequence discrimination by zinc-finger DNA-binding domains," Nature, 349:175-178 (1991).
	EO	Nekludova et al., "Distinctive DNA conformation with enlarged major groove is found in Zn-finger—DNA and other protein—DNA complexes," PNAS, 91:6948-6952 (1994)
	EP	Orkin et al., "Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy" (1995)
	EQ	Pabo et al., "Systematic Analysis of Possible Hydrogen Bonds between Amino Acid Side Chains and B-form DNA," J. Biomolecular Struct. Dynamics, 1:1039-1049 (1983).
	ER	Pabo et al., "Protein-DNA Recognition," Ann. Rev. Biochem., 53:293-321 (1984).
	ES	Pabo, C. O., "Transcription Factors: Structural Families and Principals of DNA Recognition," Ann. Rev. Biochem., 61:1053-1095 (1992).
	ET	Pavletich et al., "Crystal Structure of a Five-Finger GLI-DNA Complex: New Perspectives on Zinc Fingers," Science, 261:1701-1707 (1993).
	EU	Pavletich et al., "Zinc Finger-DNA Recognition: Crystal Structure of a Zif268-DNA Complex at 2.1 Å," Science, 252:809-817 (1991)
	EV	Pengue et al., "Repression of transcriptional activity at a distance by the evolutionarily conserved KRAB domain present in a subfamily of zinc finger proteins," Nuc. Acids Res., 22(15):2908-2914 (1994).
	EW	Pengue et al., "Transcriptional Silencing of Human Immunodeficiency Virus Type 1 Long Terminal Repeat-Driven Gene Expression by the Kruppel-Associated Box Repressor Domain Targeted to the Transactivating Response Element," J. Virology, 69(10):6577-6580 (1995).
	EX	Pengue et al., "Kruppel-associated box-mediated repression of RNA polymerase II promoters is influenced by the arrangement of basal promoter elements," PNAS, 93:1015-1020 (1996).
	EY	Pomerantz et al., "Structure-Based Design of a Dimeric Zinc Finger Protein," Biochemistry, 37(4):965-970 (1998)
	EZ	Pomerantz et al., "Analysis of homeodomain function by structure-based design of a transcription factor," PNAS, 92:9752-9756 (1995)
	FA	Qian et al., "Two-Dimensional NMR Studies of the Zinc Finger Motif: Solution Structures and Dynamics of Mutant ZFY Domains Containing Aromatic Substitutions in the Hydrophobic Core," Biochemistry, 31:7463-7476 (1992).
	FB	Quigley et al., "Complete Androgen Insensitivity Due to Deletion of Exon C of the Androgen Receptor Gene Highlights the Functional Importance of the Second Zinc Finger of the Androgen Receptor *in Vivo*," Molecular Endocrinology, 6(7):1103-1112 (1992).
	FC	Rauscher et al., "Binding of the Wilms' Tumor Locus Zinc Finger Protein to the EGR-1 Consensus Sequence," Science, 250:1259-1262 (1990).
	FD	Ray et al., "Repressor to activator switch by mutations in the first Zn finger of the glucocorticoid receptor: Is direct DNA binding necessary?," PNAS, 88:7086-7090 (1991).
	FE	Rebar et al., "Phage Display Methods for Selecting Zinc Finger Proteins with Novel DNA-Binding Specificities," Methods in Enzymology, 267:129-149 (1996).
	FF	Reith et al., "Cloning of the major histocompatibility complex class II promoter binding protein affected in a hereditary defect in class II gene regulation," PNAS, 86:4200-4204 (1989).
	FG	Rhodes et al., "Zinc Fingers: They play a key part in regulating the activity of genes in many species, from yeast to humans. Fewer than 10 years ago no one knew they existed," Scientific American, 268:56-65 (1993)
	FH	Rice et al., "Inhibitors of HIV Nucleocapsid Protein Zinc Fingers as Candidates for the Treatment of AIDS," Science, 270:1194-1197 (1995).
	FI	Rivera et al., "A humanized system for pharmacologic control of gene expression," Nature Medicine, 2(9):1028-1032 (1996)
	FJ	Rollins et al., "Role of TFIIIA Zinc Fingers In vivo: Analysis of Single-Finger Function in Developing *Xenopus* Embryos," Molecular Cellular Biology, 13(8):4776-4783 (1993).

JBB. Burns 12/10/01

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Attorney Docket No.: 19496-22	Application No.: 09/229,037
	Applicant: Cox et al.	
	Filing Date: 1/12/99	Group: ~~1643~~ 1631

	FK	Saleh et al., "A Novel Zinc Finger Gene on Human Chromosome 1qter That Is Alternatively Spliced in Human Tissues and Cell Lines," Am. J. Hum. Genet., 52:192-203 (1993).
	FL	Shi et al., "Specific DNA-RNA Hybrid Binding by Zinc Finger Proteins," Science, 268:282-284 (1995).
	FM	Shi et al., "DNA Unwinding Induced by Zinc Finger Protein Binding," Biochemistry, 35:3845-3848 (1996)
	FN	Shi et al., "A direct comparison of the properties of natural and designed finger proteins," Chem. & Biol., 2(2):83-89 (1995)
	FO	Singh et al., "Molecular Cloning of an Enhancer Binding Protein: Isolation by Screening of an Expression Library with a Recognition Site DNA," Cell, 52:415-423 (1988).
	FP	South et al., "The Nucleocapsid Protein Isolated from HIV-1 Particles Binds Zinc and Forms Retroviral-Type Zinc Fingers," Biochemistry, 29:7786-7789 (1990).
	FQ	Suzuki et al., "Stereochemical basis of DNA recognition by Zn fingers," Nuc. Acids Res., 22(16):3397-3405 (1994)
	FR	Suzuki et al. "DNA recognition code of transcription factors in the helix-turn-helix, probe helix, hormone receptor, and zinc finger families," PNAS, 91:12357-12361 (1994)
	FS	Swirnoff et al., "DNA-Binding Specificity of NGFI-A and Related Zinc Finger Transcription Factors," Mol. Cell. Biol., 15(4):2275-2287 (1995)
	FT	Taylor et al, "Designing Zinc-Finer ADR1 Mutants with Altered Specificity of DNA Binding to T in UAS1 Sequences," Biochemistry, 34:3222-3230 (1995)
	FU	Thiesen et al., "Determination of DNA binding specificities of mutated zinc finger domains," FEBS Letters, 283(1):23-26 (1991).
	FV	Thiesen et al., "Amino Acid Substitutions in the SP1 Zinc Finger Domain Alter the DNA Binding Affinity to Cognate SP1 Target Site," Biochem. Biophys. Res. Communications, 175(1):333-338 (1991).
	FW	Thukral et al., "Localization of a Minimal Binding Domain and Activation Regions in Yeast Regulatory Protein ADR1," Molecular Cellular Biology, 9(6):2360-2369 (1989).
	FX	Thukral et al., "Two Monomers of Yeast Transcription Factor ADR1 Bind a Palindromic Sequence Symmetrically to Activate *ADH2* Expression," Molecular Cellular Biol., 11(3):1566-1577 (1991).
	FY	Thukral et al., "Alanine scanning site-directed mutagenesis of the zinc fingers of transcription factor ADR1: Residues that contact DNA and that transactivate," PNAS, 88:9188-9192 (1991), + correction page.
	FZ	Thukral et al., "Mutations in the Zinc Fingers of ADR1 That Change the Specificity of DNA Binding and Transactivation," Mol. Cell Biol., 12(6):2784-2792 (1992)
	GA	Vortkamp et al., "Identification of Optimized Target Sequences for the GLI3 Zinc Finger Protein," DNA Cell Biol., 14(7):629-634 (1995).
	GB	Webster et al., "Conversion of the E1A Cys4 zinc finger to a nonfunctional His2, Cys2 zinc finger by a single point mutation," PNAS, 88:9989-9993 (1991).
	GC	Whyatt et al., "The two zinc finger-like domains of GATA-1 have different DNA binding specificities," EMBO J., 12(13):4993-5005 (1993).
	GD	Wilson et al., "*In Vivo* Mutational analysis of the NGFI-A Zinc Fingers*," J. Biol. Chem., 267(6):3718-3724 (92).
	GE	Witzgall et al., "The Kruppel-associated box-A (KRAB-A) domain of zinc finger proteins mediates transcriptional repression," PNAS, 91:4514-4518 (1994).
	GF	Wright et al., "Expression of a Zinc Finger Gene in HTLV-I- and HTLV-II-transformed Cells," Science, 248:588-591 (1990).
	GG	Yang et al., "Surface plasmon resonance based kinetic studies of zinc finger-DNA interactions," J. Immunol. Methods, 183:175-182 (1995).
	GH	Yu et al., "A hairpin ribozyme inhibits expression of diverse strains of human immunodeficiency virus type 1," PNAS, 90:6340-6344 (1993).

EXAMINER J. Bruce DATE CONSIDERED 12/10/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)	Attorney Docket No.: 019496-002200US	Application No.: 09/229,037
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: Cox III, *et al.*	
	Filing Date: January 12, 1999	Group: ~~1653~~ 1631

Reference Designation — **U.S. PATENT DOCUMENTS** — Page 1

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
A	WO 96/11267	04/18/96	PCT	~~6~~		No
B √	EP 0 873 567 A2	04/08/98	EPO	~~6~~		No

C	Corbi *et al.*, "Synthesis of a New Zinc Finger Peptide; Comparison of Its 'Code' Deduced and 'CASTing' Derived Binding Sites," FEBS Letters, 417:71-74 (1997).
D	Wang *et al.*, "Dimerization of Zinc Fingers Mediated by Peptides Evolved *In Vitro* from Random Sequences," Proc. Natl. Acad. Sci. USA, 96:9568-9573 (1999).
E	Wolfe *et al.*, "Analysis of Zinc Fingers Optimized *Via* Phage Display: Evaluating the Utility of a Recognition Code," J. Mol. Biol., 285:1917-1934 (1999).
F	Klug, "Zinc Finger Peptides for the Regulation of Gene Expression," J. Mol. Biol., 293:215-218 (1999).
G	Kang *et al.*, "Zinc Finger Proteins as Designer Transcription Factors," J. Biol. Chem., 275(12):8742-8748 (2000).
H	Hamilton *et al.*, "Comparison of the DNA Binding Characteristics of the Related Zinc Finger Proteins WT1 and EGR1," Biochemistry, 37:2051-2058 (1998).
I	Kriwacki *et al.*, "Sequence-Specific Recognition of DNA by Zinc-Finger Peptides Derived from the Transcription Factor Sp1," Proc. Natl. Acad. Sci. USA, 89:9759-9763 (1992).
J	Nakagama *et al.*, "Sequence and Structural Requirements for High-Affinity DNA Binding by the WT1 Gene Product," Molecular and Cellular Biology, 15(3):1489-1498 (1995).
K	Skerka *et al.*, "Coordinate Expression and Distinct DNA-Binding Characteristics of the Four EGR-Zinc Finger Proteins in Jurkat T Lymphocytes," Immunobiology, 198:179-191 (1997).
L	Kothekar, "Computer Simulation of Zinc Finger Motifs from Cellular Nucleic Acid Binding Proteins and their Interaction with Consensus DNA Sequences," FEBS Letters, 274(1,2):217-222 (1990).
M	Search of Swissprot Database performed ca. August 2000.

EXAMINER J.B. Brusca — DATE CONSIDERED 12/10/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.